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41 [Slowing down sorting networks to obtain faster sorting algorithms](#)



Richard Cole

 January 1987 **Journal of the ACM (JACM)**, Volume 34 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(788.72 KB\)](#)

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Megiddo introduced a technique for using a parallel algorithm for one problem to construct an efficient serial algorithm for a second problem. This paper provides a general method that trims a factor of $O(\log n)$ time (or more) for many applications of this technique.

42 [A model for enhancing connection rerouting using active networks](#)



Kwan Wu Chin, Mohan Kumar, Craig Farrell

 August 1999 **Proceedings of the 2nd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

 Full text available: [pdf\(1.13 MB\)](#)

 Additional Information: [full citation](#), [references](#), [index terms](#)

43 [Automated packet trace analysis of TCP implementations](#)



Vern Paxson

 October 1997 **ACM SIGCOMM Computer Communication Review, Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(1.99 MB\)](#)

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We describe tcpanaly, a tool for automatically analyzing a TCP implementation's behavior by inspecting packet traces of the TCP's activity. Doing so requires surmounting a number of hurdles, including detecting packet filter measurement errors, coping with ambiguities due to the distance between the measurement point and the TCP, and accommodating a surprisingly large range of behavior among different TCP implementations. We discuss why our efforts to develop a fully general tool failed, and det ...

44 [A case study in programming for parallel-processors](#)



Jack L. Rosenfeld

 December 1969 **Communications of the ACM**, Volume 12 Issue 12

Publisher: ACM PressFull text available:  [pdf\(1.27 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An affirmative partial answer is provided to the question of whether it is possible to program parallel-processor computing systems to efficiently decrease execution time for useful problems. Parallel-processor systems are multiprocessor systems in which several of the processors can simultaneously execute separate tasks of a single job, thus cooperating to decrease the solution time of a computational problem. The processors have independent instruction counters, meaning that each processo ...

Keywords: Gauss-Seidel, Jacobi, convergence, electrical network, multiprocessor, multiprogramming, parallel programming, parallel-processor, parallelism, relaxation, simulation, storage interference, tasking

45 [On deciding stability of scheduling policies in queueing systems](#)

David Gamarnik

February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available:  [pdf\(1.03 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

46 [Internet service performance failure detection](#)



Amy Ward, Peter Glynn, Kathy Richardson


December 1998 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(534.60 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The increasing complexity of computer networks and our increasing dependence on them means enforcing reliability requirements is both more challenging and more critical. The expansion of network services to include both traditional interconnect services and user-oriented services such as the web and email has guaranteed both the increased complexity of networks and the increased importance of their performance. The first step toward increasing reliability is early detection of network performanc ...

47 [Solving Two-Commodity Transportation Problems with Coupling Constraints](#)



K. G. Ramakrishnan

October 1980 **Journal of the ACM (JACM)**, Volume 27 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(1.26 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)

48 [The interval packing process of linear networks](#)



E. G. Coffman, Ph. Robert, A. L. Stolyar

December 1999 **ACM SIGMETRICS Performance Evaluation Review**, Volume 27 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(159.81 KB\)](#)Additional Information: [full citation](#), [citations](#), [index terms](#)

49 [On the interface between computers and data communications systems](#)



A. G. Fraser

July 1972 **Communications of the ACM**, Volume 15 Issue 7**Publisher:** ACM PressFull text available:  [pdf\(776.39 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Future systems that combine computers, digital terminals, and communications equipment present design optimization problems that require reconsideration of the traditional functional responsibilities of the respective subsystems. Several "standard" interfaces, by means of which computers and digital terminals connect to the communications systems will be required. When specifying these interfaces, consideration must be given to problems of coordination, synchronization, error co ...

Keywords: communications, coordination of input/output, multiplexed input/output, standard interface communications protocol, virtual channel

50 Associative and Parallel Processors



Kenneth J. Thurber, Leon D. Wald

December 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.62 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

51 Measuring Web performance in the wide area



Paul Barford, Mark Crovella

September 1999 **ACM SIGMETRICS Performance Evaluation Review**, Volume 27 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

One of the most vexing questions facing researchers interested in the World Wide Web is why users often experience long delays in document retrieval. The Internet's size, complexity, and continued growth make this a difficult question to answer. We describe the Wide Area Web Measurement project (WAWM) which uses an infrastructure distributed across the Internet to study Web performance. The infrastructure enables simultaneous measurements of Web client performance, network performance and Web se ...

52 Randomized routing with shorter paths



Eli Upfal, Sergio Eleftheriou, Marc Snir

August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM Press

Full text available:  [pdf\(707.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

53 Combinatorial optimization games



Xiaotie Deng, Toshihide Ibaraki, Hiroshi Nagamochi

January 1997 **Proceedings of the eighth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available:  [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

54 Intelligent handoff for mobile wireless internet



Jon Chung-Shien Wu, Chieh-Wen Cheng, Gin-Kou Ma, Nen-Fu Huang

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(223.56 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: mobile internet, wireless data networks, wireless internet

55 Scaling algorithms for the shortest paths problem

Andrew V. Goldberg

January 1993 **Proceedings of the fourth annual ACM-SIAM Symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available:  pdf(957.56 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)56 Proud: a fast sea-of-gates placement algorithm

Ren-Song Tsay, Ernest S. Kuh, Chi-Ping Hsu

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation****Publisher:** IEEE Computer Society PressFull text available:  pdf(665.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a fast and effective placement algorithm which takes advantage of inherent scarcity in the connectivity specification. It solves repeatedly sparse linear equations by the SOR (Successive Over-Relaxation) method in a top-down hierarchy. The algorithm has been implemented; for a triple-metal-layer 100K sea-of-gates design with 26,000 instances, it takes 50 minutes on a VAX 8650 and yields excellent results.

57 From valid inequalities to heuristics: a unified view of primal-dual approximation algorithms in covering problems

Dimitris Bertsimas, Chung-Piaw Teo

January 1995 **Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available:  pdf(913.59 KB) Additional Information: [full citation](#), [references](#), [index terms](#)58 Strategies for future planning: Planning for future user services

Joan Franz

September 1979 **Proceedings of the 7th annual ACM SIGUCCS conference on User services****Publisher:** ACM PressFull text available:  pdf(425.19 KB) Additional Information: [full citation](#), [abstract](#)

The purpose of this paper is to explore the changes that will occur within User Services as the nature of computing changes and affects changes in institutions. In the past, most institutions have had one major computer center which supplied the bulk of the computer power and all related services and activities. Currently we are seeing a shift away from this concept. We are seeing computers springing up all over. So how is this affecting the computer centers? Should the computer center continue ...

59 The value of a systematic approach to measurement and analysis: an ISP case study

Srinivas Ramanathan, Edward H. Perry

May 1999 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '99**, Volume 27 Issue 1**Publisher:** ACM PressFull text available:  pdf(260.65 KB) Additional Information: [full citation](#), [references](#), [index terms](#)60 A Web-CAD methodology for IP-core analysis and simulation

Alessandro Fin, Franco Fummi



June 2000 **Proceedings of the 37th conference on Design automation****Publisher:** ACM PressFull text available: pdf(121.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An effective selection of the more suited IP-core, available for a particular design, should be based on some simulation sessions. However, simulation models cannot be close enough to the real models of the core to protect the intellectual property. This paper proposes a Web-CAD methodology for IP-core analysis based on a client/server simulation architecture. The core vendor can make available to the public even the core models used for core synthesis without disclosing IP information. On ...

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Auto-discovery capabilities for service management: an ISP case study.

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Journal of Network and Systems Management, {J-Netw-Syst-Manage-USA}, Dec. 2000, vol. 8, no. 4, p. 457-82, 10 refs, CODEN: JNSMEG, ISSN: 1064-7570.
Publisher: Plenum, USA.

Author(s)[Ramanathan-S](#), [Caswell-D](#), [Neal-S](#).**Abstract**

Auto-discovery is one of the key technologies that enables management systems to be quickly customized to the environments that they are intended to manage. As Internet services have grown in complexity in recent years, it is no longer sufficient to monitor and manage these services in isolation. Instead, it is critical that management systems discover dependencies that exist among Internet services, and use this knowledge for correlation of measurement results, so as to determine the root-causes of problems. While most existing management systems have focused on discovery of host, servers, and network elements in isolation, we describe auto-discovery techniques that discover relationships among services. Since new Internet services and service elements are being deployed at a rapid pace, it is essential that the discovery methodologies be implemented in an extensible manner, so that new discovery capabilities can be incrementally added to the management system. We present an extensible architecture for auto-discovery and describe a prototype implementation of this architecture and associated auto-discovery techniques. We also highlight experiences from applying these techniques to discover real-world ISP systems. Although described in the context of ISP systems, the concepts described are applicable for the discovery of services and inter-service relationships in enterprise systems as well.

Descriptors[COMPUTER-NETWORK-MANAGEMENT](#); [INFORMATION-RESOURCES](#); [INTERNET](#).**Classification codes**[C6150N Distributed-systems-software*](#);[C5620W Other-computer-networks](#);[C7210N Information-networks](#).**Keywords**

auto-discovery; service-management; ISP; Internet-services; prototype-implementation; enterprise-systems; World-Wide-Web; Internet-service-providers.

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